Attorney Docket No.: P-6114-Ú



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

ZIPPER, Eliav

Examiner:

Not yet known

Serial No.:

10/736,741

Group Art Unit:

2681

Filed:

December 17, 2003

Title:

RADIO FREQUENCY MODULATOR AND METHODS THEREOF

Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO-1449:

1. 🖂	listing documents including patents, publications and other information for consideration
	by the Examiner, however, since the subject application was filed after June 30, 2003,
	copies of United States patents, and/or United States patent applications, and/or United
	States patent application publications are not included in this information disclosure
	statement; and/or
2. 🗌	listing documents including patents, publications and other information that have been
	previously cited or submitted to the Patent Office in prior application U.S. Serial No.
	, filed which is properly identified and relied on for an earlier effective
	filing date under 35 U.S.C. 120 for consideration by the Examiner; however, in accordance
	with 37 C.F.R. 1.98(d), copies of such documents are not included in this information
	disclosure statement; and/or
3. 🖂	listing documents including patents, publications, and other information for consideration
	by the Examiner, copies of which are included with this information disclosure statement;

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4. Isting other information for the Examiner's consideration which was cited in a communication from a foreign patent office in a counterpart foreign application, a copy of which is included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

I) Within three (3) months of filing the subject Application or entry of the
subject Application into the national stage or before mailing of the first Office Action on
the merits of the subject Application or a request for continued examination thereof,
whichever event occurs last pursuant to of 37 C.F.R §1.97 (b); or
II) After the period specified in (I) but before the mailing date of either a final
Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311
whichever occurs first and;
1.
the Form PTO-1449 was either (i) cited in a communication from a foreign patent
office in a counterpart foreign application not more than three (3) months prior to

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05-0649.

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the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

	know	n to any individual designated in §1.56(c) more than three (3) months prior to							
	the fil	ing of this information disclosure statement; or							
	2.	the undersigned hereby authorizes the Patent Office to charge the fee							
	in the	amount of \$180.00 under 37 C.F.R \$1.17 (p) to Deposit Account 05-0649.							
III)		After the period in (I) and (II) but before the payment of the issue fee and,							
	1.	The undersigned hereby states:							
		a) that each item of information cited on the form PTO-1449							
	was cited in a communication from a foreign Patent Office in a								
		foreign application not more than three (3) months prior to the filing of this							
	Information Disclosure Statement; or								
		b)							
		was cited in a communication from a foreign patent office in a counterpart							
		foreign application, and to the knowledge of the undersigned after making							
		reasonable inquiry, no item of information contained in this Information							
		Disclosure Statement was known to any individual designated in 37 C.F.R. §							
		1.56(c) more than three months prior to the filing of this Information							
		Disclosure Statement; and							
	2.	The undersigned hereby authorizes the Patent Office to charge the							
	Petitio	on fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account							

APPLICANTS: SERIAL NO.:

ZIPPER, Eliav 10/736,741

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Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 05-0649.

Respectfully submitted,

Mark S. Cohen

Attorney for Applicant(s) Registration No. 42,425

Dated: October 17, 2004

Eitan, Pearl, Latzer & Cohen Zedek, LLP.

10 Rockefeller Plaza, Suite 1001 New York, New York 10020

Tel: (212) 632-3480 Fax: (212) 632-3490

S	ubstitute 1	for form	1449A/PTO	Complete if Known				
				Application Number	10/736,741			
INFO	RMAT	LION	DISCLOSURE	Filing Date	December 17,	200201PE		
STA	TEME	NT B	Y APPLICANT	First Named Inventor	ZIPPER, Eliav	(6)		
				Group Art Unit	2681	OCT 2 (1 200)		
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Sheet	1	of	4	Attorney Docket Number	P-6114-US	CATA STATE		

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			U.	S. PATENT DOCUMENTS		
Examiner Initials*	Cite No. 1	U.S. Patent Document Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	5,012,200		Meinzer	04-30-1991	
	В	5,862,460		Rich	01-19-1999	
	С	5,903,854		Abe et al.	05-11-1999	
	D	6,330,455		Ichihara	12-11-2001	
	E	5,302,914		Arntz et al.	04-12-1994	
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	G	5,694,093		DaSilva et al.	12-02-1997	
	н	5,854,571		Pinckley et al.	12-29-1998	
	ı	5,872,481		Sevic et al.	02-16-1999	
	J	6,133,788		Dent	10-17-2000	· · · · · · · · · · · · · · · · · · ·
	κ	6,201,452		Dent et al.	03-13-2001	
	L	5,345,189		Hornak et al.	09-06-1994	
	м	5,264,807		Okubo et al.	11-23-1993	
	N	5,909,643		Aihara	06-01-1999	
	0	5,929,702		Myers et al.	09-27-1999	
	Р	5,758,269		Wu	05-26-1998	
	Q	5,786,727		Sigmon	07-28-1998	
	R	5,886,575		Long	03-23-1999	
	s	5,880,633		Leizerovich et al.	03-09-1999	
	т	5,739,723		Sigmon et al.	04-14-1998	

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Examiner Initials*	Cite No. 1		gnPatent Doc Number ⁴ (if k	cument d Code ⁵ (nown)	Name of Patentee or Applicant of Cited Docume	nt Cited	Publication of Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	⊤°
	U	wo	99/52206		Dent	10-14-199	9		
						1			
Examiner Signature						Date Considered			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

s	ubstitute f	for form	1449A/PTO	Complete if Known			
				Application Number	10/736,741		
INFO	RMAT	TION	DISCLOSURE	Filing Date	December 17, 2003		
STA	TEME	NT B	Y APPLICANT	First Named Inventor	ZIPPER, Eliav		
				Group Art Unit	2681		
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Sheet	2	of	4	Attorney Docket Number	P-6114-US		

		U.	S. PATENT DOCUMENTS		
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		(if known)			Figures Appear
···	v	5,872,481	Sevic et al.	02-16-1999	
	w	5,661,434	Brozovich et al.	08-26-1997	
	х	5,420,541	Upton et al.	05-30-1995	
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	z	5,548,246	Tamamoto et al.	08-20-1996	
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Cite No. 1		nPatent Do Number ⁴ (if		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
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	ite o. 1	ite Office ³ N	ite o. Office ³ Number ⁴ (if	Office ³ Number ⁴ Kind Code ⁵ (if known)	ite 0. Office ³ Number ⁴ Kind Code ⁵ Applicant of Cited Document		

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	Substitu	ite for fo	orm 1449B/PTO	Complete if Known		
				Application Number	10/736,741	
INFO	RMA	TIOR	N DISCLOSURE	Filing Date	December 17, 2003	
STA ⁻	LEME	I TN	BY APPLICANT	First Named Inventor	ZIPPER, Eliav	
				Group Art Unit	2681	
(use as many sheets as necessary)				Examiner Name	Not yet known	
Sheet	3	of	4	Attorney Docket Number	P-6114-US	

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²		
	АМ	FREDRICK H. RAAB, "Efficiency of Outphasing RF Power-Amplifier Systems", IEEE Transactions on			
		Communications. Vol. Com-33, No. 10, Oct 1985, pp. 1094-1099			
,	AN	STEVE C. CRIPPS, "RF Power Amplifiers for Wireless Communications", 1999, USA, pp. 219-250			
	AO	D.C. Cox, "Linear Amplification with Nonlinear Components", IEEE Transaction on Communications, December			
	-	1974, pp.1942-1945.			
	AP	Bob Stengel and William R. Eisenstadt, "LINC Power Amplifier Combiner Method Efficiency Optimization", IEEE			
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	AR	S.A. HETZEL et al., "A LINC Transmitter", University of Bristol, IEEE, 1999, pp. 133-137			
AS S. O. Ampem-Darko, H.S. Al-Raweshidy, "A Novel Technique for Gain/Phase Error Cancellation in LINC Transmitters", 1999 IEEE , pp. 2034-2038					

Examiner	Date	 	
Signature	Considered		

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				Application Number	10/736,741
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	December 17, 2003
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Sheet	4	of	4	Attorney Docket Number	P-6114-US

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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²				
	AT T. A. D. Riley and M. A. Copeland, "A simplified continuous phase modulator technique," IEEE T						
		circuits and systems, VOL. 41, NO. 5, pp. 321-328, May 1994.					
	AU	N. M. Filiol, T. A. D. Riley, C. Plett and M. A. Copeland, "An agile ISM band frequency synthesizer with built-in					
		GMSK data modulation," IEEE Journal of Solid-State Circuits, VOL. 33, NO. 7, pp.998-1008, July 1998.					
	AV	M. H. Perrot, T. L. Tewksbury III, C. G. Sodini, "A 27-mW CMOS Fractional-N Synthesizer Using Digital					
	Compensation for 2.5-Mb/s GFSK Modulation", IEEE Journal of Solid-State Circuits, VOL. 32, NO. 12, pp.2048-						
		2060, Dec 1997.					
Examiner Signature		Date Considered					

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